Limited Warranty

For one year from the date of purchase, Wayne Water Systems ("Wayne") will repair or replace, at its option, for the original purchaser any part or parts of its Sump Pumps or Water Pumps ("Product") found upon examination by Wayne to be defective in materials or workmanship. Please call Wayne (800-237-0987) for instructions or see your dealer. Be prepared to provide the model number when exercising this warranty. All transportation charges on Products or parts submitted for repair or replacement must be paid by purchaser.

This Limited Warranty does not cover Products which have been damaged as a result of accident, abuse, misuse, neglect, improper installation, improper maintenance, or failure to operate in accordance with Wayne's written instructions.

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANT-ABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF PURCHASE. THIS IS THE EXCLUSIVE REMEDY AND ANY LIABILITY FOR ANY AND ALL INDIRECT OR CONSEQUENTIAL DAMAGES OR EXPENSES WHATSOEVER IS EXCLUDED.

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusions or limitations of incidental or consequential damages, so the above limitations might not apply to you. This limited warranty gives you specific legal rights, and you may also have other legal rights which vary from state to state.

In no event, whether as a result of breach of contract warranty, tort (including negligence) or otherwise, shall Wayne or its suppliers be liable for any special, consequential, incidental or penal damages including, but not limited to loss of profit or revenues, loss of use of the products or any associated equipment, damage to associated equipment, cost of capital, cost of substitute products, facilities, services or replacement power, downtime costs, or claims of buyer's customers for such damages.

You **MUST** retain your purchase receipt along with this form. In the event you need to exercise a warranty claim, you **MUST** send a **copy** of the purchase receipt along with the material or correspondence. Please call Wayne (800-237-0987) for return authorization and instructions.

DO NOT MAIL THIS FORM	TO WAYNE. Use this form only to maintain your		
MODEL NO	SERIAL NO		
INSTALLATION DATE			
ATTACH YOUR RECEIPT HERE			

Operating Instructions AU5ES

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.



Electronic Sump Pump Control and Alarm

Description

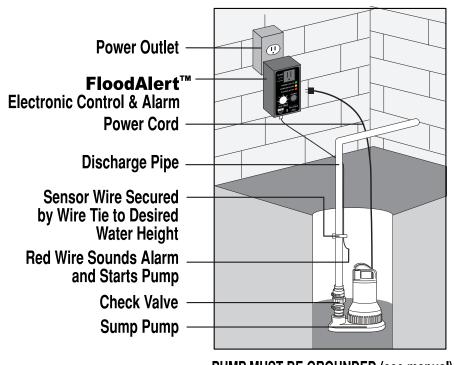
The FloodAlert control uses patented electronic surface transfer (EST) to detect the presence of water. Sensing is not affected by oil, soaps, turbulence or the waters resistance and is intrinsically safe.

When water touches the tip of FloodAlert's sensing wire, a relay closes turning on your pump. Patent pending Zcross technology closes the relay contact at zero volts and opens it at zero current. This stops relay arcing, extending relay life, stopping powerline flicker, and making pump startups smoother.

A settable "Run Timer" allows you to change the pumping depth without opening the sump pump pit. This timer allows any quantity of water to be pumped out of the sump and can even pump it completely dry without running the pump too long.

If the water level does not fall below the tip of the wire while the pump is running an alarm sounds indicating high water pump failure or a clogged discharge line. Two lights alternately flash, warning you of a problem before your basement floods. A standard 9-volt battery operates the alarm during a loss of power at the wall outlet. The battery maintains the sensor and alarm for two days without power. Circuitry maintains the battery voltage extending its shelf life to 7-years.

Use FloodAlert to convert your manual pump to automatic or to replace a defective float switch. FloodAlert requires a grounded pump plug or, alternatively, a grounded connection to the sump. It will not apply 120-volts to the pump motor without proper grounding.



PUMP MUST BE GROUNDED (see manual)

Figure 1

Safety Guidelines

This manual contains information that is very important to know and understand. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols.

AWARNING

Warning indicates

a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

a potentially minor or moderate injury.

ACAUTION

Caution indicates

Unpacking

After unpacking the unit, inspect carefully for any damage that may have occurred during transit. Make sure to tighten fittings, bolts, etc., before putting unit into service.

AWARNING

operate unit if damaged during shipping, handling or use. Damage may result in bursting and cause injury or property damage.

Do

not

Operating Instructions

Model AU5ES

Operation

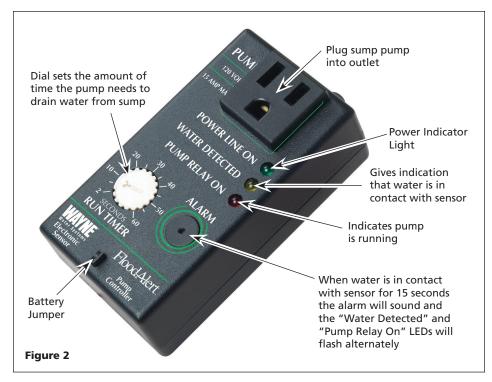
ACAUTION

Before performing any wiring to sump pump disconnect power to pump.

- 1) Plug FloodAlert into a 120-volt grounded wall outlet.
- 2) Insert the battery jumper (See Figure 2).
- Plug grounded pump into Flood-Alert outlet.
- 4) Run the sensor wire to the sump and fasten using wire ties. Its tip should be at the level where you want the pump to begin operating.

SETTING THE RUN TIMER

The run timer sets the pumping depth and how much water you prefer to pump out of the pit. It does not start timing until the water level drops below the sensor wire. The moment the water drops below the sensing wire the run timer starts limiting the pumps run time. Initially set the time to 5-seconds. Test the operation by filling the sump pit with water until the sensor wire is below water. The timer should be set so that the pump turns off before the water level reaches the pump's inlet. If the water level reaches the pump's inlet, it will no longer pump water. If a pump has an inlet on the bottom side of the pump and the water level is low enough to allow air into the pump, an air-lock condition may occur. Air-lock happens when air is trapped in the pump and can not escape. Air-lock condition can be avoided if the water level stays above the pump's inlet. Adjust set-time to remove desired amount of water and to avoid an air-lock condition.



BATTERY

The jumper on the cover connects the battery to the circuitry. If the unit loses power the battery runs the alarm and sensor. It should be replaced every year or when a power loss occurs for over two days.

To replace battery:

Purchase a 9-volt alkaline battery. Unplug the pump from the unit and unplug the unit from the wall outlet. Remove the battery jumper. Remove the 4-screws holding the cover. Remove the cover from the base by using a rocking motion to free the receptacle from its slide on tabs. Unsnap the old battery and snap in the new one. Replace the cover making sure to press hard on the receptacle to slide it fully onto its 3-tabs. Replace the 4-screws holding the cover. Plug the unit into the wall outlet and the pump into the unit. Replace the battery jumper.

ACAUTION

Do not plug d. High

unit in with the cover removed. High voltages are present.

WATER SENSING

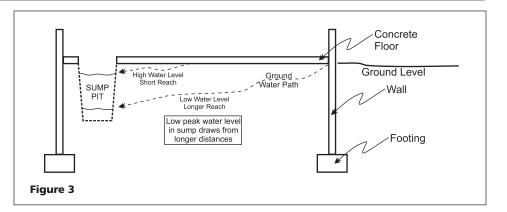
EST measures the surface area of liquid contacting two metals. Since the sump is grounded for safety reasons, something metal in the sump must be grounded. This might be the pump case, the sump itself, or on a plastic pump, it's motor shaft. The sensing wire is the other metal. EST senses the square inches of contact between the two metals and their distance. The purpose is to ignore thin water films that might coat the surface of a wire or pipe and only detect the main body of water. It does not detect resistance and touching the sensing wire to ground does not activate it.

OIL FILMS

EST is able to break apart oil films that might coat its sensing probe. Oil films float on the surface of water adhering to the surface of metals preventing them from making electrical contact with the water. EST's tiny fast moving electronic pulses move non-conductive liquids away from the probe, busting them apart if they manage to coat it.

WATER LEVEL

Water seeks its own level but compacted soil causes it to deviate to the path of least resistance. As a result ground water will not rise at a uniform level across your entire basement. A sump pump pit must not only be deep enough, but more importantly maintain a low enough water level to insure that the path of least resistance remains underground and not across the top of your basement floor. An empty sump draws more groundwater from surrounding areas than a full one. Experience shows this to be roughly a 4:1 ratio; a 1-foot below grade peak water level draws from only a 4-foot radius while a 3-foot below grade peak water level extends this out to 12-feet. A common error is setting the water level as high as possible to minimize pump cycling and later noticing that water surfaces some distance away. Zcross technology in FloodAlert allows you to set the water level as low as practical without worrying about high cycle operation.



RATINGS

Voltage 100-130 VAC

Max. Current 15-Amps Peak Run Current

Locked Rotor 40-Amps
Starting Current 40-Amps

Battery 9-Volt Alkaline

Alarm 80db @ 1m Alternating

Run Timer 2-60 Seconds

Patent 6,820,483 others pending

Notes

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